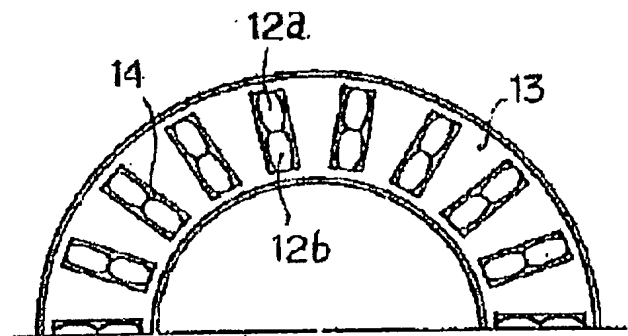


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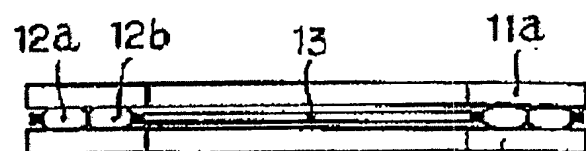
- international: F04B39/00; F04B27/08; F16C19/44; F16C33/34;
F16C33/62; F04B39/00; F04B27/08; F16C19/22;
F16C33/30; F16C33/62; (IPC1-7): F16C33/34;
F04B27/08; F04B39/00; F16C19/44; F16C33/62

- European:**Application number:** JP20010357710 20011122**Priority number(s):** JP20010357710 20011122[Report a data error here](#)**Abstract of JP2003156050**

PROBLEM TO BE SOLVED: To provide a thrust needle bearing which is capable of reducing a differential slip, and suppressing the increase in the rolling contact bearing pressure as much as possible, small in wear of a race and excellent in surface damage-resistant characteristic. **SOLUTION:** This thrust needle bearing comprises a roller with crowning, and a race having $\geq 10,000/\text{mm}^2$ to $< 40,000/\text{mm}^2$ carbide particles of the grain size of $\geq 0.6 \mu\text{m}$ at least to the depth of 0.1 mm of a surface layer.



(a)



(b)

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